

Physical Address: 1541 North 800 East, North Logan  
 Mailing Address: 9400 Old Main Hill, Logan UT 84322 - 9400  
 Phone: (435)797-2217 Email: usual@usu.edu  
 Website: soiltest.usu.edu

### NIR ANALYSIS REPORT

SAMPLE NUMBER 0229  
 SAMPLE TYPE Alfalfa  
 SAMPLE ID Pivot 1 S  
 DATE PROCESSED 7/22/2022



Heber Valley SSD  
 PO Box 427  
 Midway, UT 84049

---ANALYSIS---

	AS RECEIVED BASIS	DRY MATTER BASIS
MOISTURE %	8.86	0.00
DRY MATTER %	91.1	100
CRUDE PROTEIN %	17.9	19.6
ACID DET. FIBER %	28.7	31.5
NEUT. DET. FIBER %	33.4	36.6
TDN%	54.3	59.6
NE/LACTATION,MCAL/LB	0.61	0.67
NE/MAINTENANCE,MCAL/LB	0.54	0.59
NE/GAIN,MCAL/LB	0.30	0.33
RELATIVE FEED VALUE (RFV)		161
<b><u>MINERALS</u></b>		
CALCIUM (CA) %	1.29	1.42
PHOSPHORUS (P) %	0.26	0.28
POTASSIUM (K) %	1.92	2.11
MAGNESIUM (MG) %	0.27	0.30

The sampling technique used to obtain this sample will determine if the sample represents the lot.



Plant Analysis Lab  
 Soil Testing Lab  
 Feed Analysis Lab  
 Irrigation Water Analysis Lab  
 Manure Analysis Lab

# UtahStateUniversity.

## ANALYTICAL LABORATORIES

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### NIR ANALYSIS REPORT

SAMPLE NUMBER 0230  
SAMPLE TYPE Alfalfa  
SAMPLE ID Pivot 1 N  
  
DATE PROCESSED 7/22/2022



Heber Valley SSD  
PO Box 427  
Midway, UT 84049

#### ---ANALYSIS---

	<u>AS RECEIVED</u> <u>BASIS</u>	<u>DRY MATTER</u> <u>BASIS</u>
MOISTURE %	8.00	0.00
DRY MATTER %	92.0	100
CRUDE PROTEIN %	16.3	17.7
ACID DET. FIBER %	32.0	34.8
NEUT. DET. FIBER %	37.0	40.2
TDN%	54.6	59.3
NE/LACTATION,MCAL/LB	0.58	0.63
NE/MAINTENANCE,MCAL/LB	0.53	0.58
NE/GAIN,MCAL/LB	0.30	0.33
RELATIVE FEED VALUE (RFV)		142
<b><u>MINERALS</u></b>		
CALCIUM (CA) %	1.24	1.35
PHOSPHORUS (P) %	0.26	0.28
POTASSIUM (K) %	2.01	2.19
MAGNESIUM (MG) %	0.25	0.27

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### NIR ANALYSIS REPORT

SAMPLE NUMBER 0231  
SAMPLE TYPE Alfalfa  
SAMPLE ID Pivot 2  
DATE PROCESSED 7/22/2022



Heber Valley SSD  
PO Box 427  
Midway, UT 84049

#### ---ANALYSIS---

	<u>AS RECEIVED BASIS</u>	<u>DRY MATTER BASIS</u>
MOISTURE %	9.07	0.00
DRY MATTER %	90.9	100
CRUDE PROTEIN %	19.4	21.4
ACID DET. FIBER %	28.1	30.9
NEUT. DET. FIBER %	33.6	37.0
TDN%	56.0	61.6
NE/LACTATION,MCAL/LB	0.62	0.68
NE/MAINTENANCE,MCAL/LB	0.56	0.62
NE/GAIN,MCAL/LB	0.33	0.36
RELATIVE FEED VALUE (RFV)		164
<b><u>MINERALS</u></b>		
CALCIUM (CA) %	1.21	1.33
PHOSPHORUS (P) %	0.27	0.30
POTASSIUM (K) %	2.16	2.37
MAGNESIUM (MG) %	0.25	0.28

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### NIR ANALYSIS REPORT

SAMPLE NUMBER 0232  
SAMPLE TYPE Alfalfa  
SAMPLE ID Pivot 3 N  
DATE PROCESSED 7/22/2022



Heber Valley SSD  
PO Box 427  
Midway, UT 84049

	---ANALYSIS---	
	AS RECEIVED BASIS	DRY MATTER BASIS
MOISTURE %	8.34	0.00
DRY MATTER %	91.7	100
CRUDE PROTEIN %	18.0	19.6
ACID DET. FIBER %	27.7	30.3
NEUT. DET. FIBER %	31.5	34.4
TDN%	55.5	60.6
NE/LACTATION,MCAL/LB	0.62	0.68
NE/MAINTENANCE,MCAL/LB	0.55	0.60
NE/GAIN,MCAL/LB	0.31	0.34
RELATIVE FEED VALUE (RFV)		174
<b><u>MINERALS</u></b>		
CALCIUM (CA) %	1.41	1.54
PHOSPHORUS (P) %	0.25	0.27
POTASSIUM (K) %	2.09	2.28
MAGNESIUM (MG) %	0.26	0.28

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### NIR ANALYSIS REPORT

SAMPLE NUMBER 0233  
SAMPLE TYPE Alfalfa  
SAMPLE ID Pivot 3 S  
DATE PROCESSED 7/22/2022



PROUDLY USING  
NIRSC EQUATIONS

Heber Valley SSD  
PO Box 427  
Midway, UT 84049

	---ANALYSIS---	
	AS RECEIVED BASIS	DRY MATTER BASIS
MOISTURE %	8.80	0.00
DRY MATTER %	91.2	100
CRUDE PROTEIN %	17.7	19.5
ACID DET. FIBER %	27.3	29.9
NEUT. DET. FIBER %	30.7	33.7
TDN%	56.2	61.7
NE/LACTATION,MCAL/LB	0.63	0.69
NE/MAINTENANCE,MCAL/LB	0.57	0.62
NE/GAIN,MCAL/LB	0.33	0.36
RELATIVE FEED VALUE (RFV)		178
<b><u>MINERALS</u></b>		
CALCIUM (CA) %	1.70	1.86
PHOSPHORUS (P) %	0.23	0.25
POTASSIUM (K) %	2.03	2.23
MAGNESIUM (MG) %	0.33	0.36

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### NIR ANALYSIS REPORT

SAMPLE NUMBER 0234  
 SAMPLE TYPE Alfalfa  
 SAMPLE ID Pivot 5  
 DATE PROCESSED 7/22/2022



PROUDLY USING  
NIRSC EQUATIONS

Heber Valley SSD  
 PO Box 427  
 Midway, UT 84049

	---ANALYSIS---	
	AS RECEIVED BASIS	DRY MATTER BASIS
MOISTURE %	9.50	0.00
DRY MATTER %	90.5	100
CRUDE PROTEIN %	17.5	19.3
ACID DET. FIBER %	31.6	35.0
NEUT. DET. FIBER %	36.8	40.7
TDN%	51.8	57.2
NE/LACTATION,MCAL/LB	0.57	0.63
NE/MAINTENANCE,MCAL/LB	0.50	0.55
NE/GAIN,MCAL/LB	0.27	0.30
RELATIVE FEED VALUE (RFV)		135
<b><u>MINERALS</u></b>		
CALCIUM (CA) %	1.14	1.26
PHOSPHORUS (P) %	0.26	0.29
POTASSIUM (K) %	2.28	2.52
MAGNESIUM (MG) %	0.21	0.23

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 Manure Analysis Lab

# Invoice

## USU Analytical Labs

9400 Old Main Hill  
 Utah State University  
 Logan, Utah 84322-9400  
 (435) 797-2217  
 (435) 797-2117 (FAX)

**Date Billed:** 7/19/2022  
**Date Paid:**

**Invoice Number:** 2203-0229

**Name:** Heber Valley SSD  
**Address:** PO Box 427  
 Midway UT 84049

**Account #**  
**Check #**  
**Cash**  
**Credit Card #**

Laboratory Numbers	Quantity	Description	Price	Code	Amount
2203-0229 - 2203-0234	6	NIR	20.00	8A	120.00
-					
-					
-					
-					
-					

**Total Due:** 120.00  
**Amount Paid:**  
**Balance:** 120.00

**PAYMENT CAN BE BY CHECK OR CREDIT CARD (VISA, MASTERCARD, OR DISCOVER) BY PHONE (435-797-2217) OR ONLINE (soiltest.usu.edu).**

**PLEASE MAKE CHECK PAYABLE TO: USU Analytical Laboratories**

**PLEASE NOTE: Late fees will be assessed after the first reminder. After three reminders, your bill will be sent to a collection agency, with additional fees (up to 50% additional) assessed.**